UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 3450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

04586

7590

09/15/2004

ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043 EXAMINER
TALBOT, BRIAN K

ART UNIT

PAPER NUMBER

1762

DATE MAILED; 09/15/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,550	11/20/2003	Don-Gey Liu	MR1683-507	5601

TITLE OF INVENTION: OXYGEN-REMOVING PRE-PROCESS FOR COPPER INTERCONNECT GROWN BY ELECTROCHEMICAL DISPLACEMENT DEPOSITION

L	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION PEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1330	\$300	\$1630	12/15/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

				Note: A cortificate	of mailing our only be and f	No. 1	
ROSENBERG K	CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) (94586 7590 09/15/2004			Fee(s) Transmittal, papers. Each addition have its own certific	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.		
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043					Certificate of Mailing or Tran this Fee(s) Transmittal is bein e with sufficient postage for ful lail Stop ISSUE FEE address SPTO (703) 746-4000, on the o		
						(Depositor's name)	
						(Signatore)	
						(Date)	
APPLICATION NO.	FILING DATE	F	FIRST NAMED	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,550	11/20/2003	··	Don-Ge	y Liu	MR1683-507	5681	
TITLE OF INVENTION: DEPOSITION	OXYGEN-REMOVING	PRE-PROCESS 1	FOR COPPI	ER INTERCONNECT GR	ROWN BY ELECTROCHEN	MICAL DISPLACEMENT	
APPLN. TYPE	SMALL ENTITY	ISSUE FEI	EE	PUBLICATION PEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330		\$300	\$1630	12/15/2004	
EXAMI	INER	ART UNIT	τ	CLASS-SURCLASS	7		
TALBOT, I	BRIAN K	1762		427-096000			
1. Change of correspondence	address or indication of "Fe	ee Address" (37	2. For printi	ng on the patent front page,	list		
CFR 1.363).	ence address for Change of	Correspondence	(1) the nam	es of up to 3 registered pate			
Address form PTO/SB/122) attached. "Fee Address" indication form PTO/SB/12 Ber (3, 07, convergement) attached by the Address of the name of a single firm (having as a member a registered attorney or agent) and the names of up to							
3. ASSIGNEE NAME AND I	RESIDENCE DATA TO B	E PRINTED ON TH		•			
PLEASE NOTE: Unless a recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	low, no assignee da of this form is NOT a	ata will appea a substitute fo	er on the patent. If an assignment,	mee is identified below, the do	ocument has been filed for	
(A) NAME OF ASSIGNE				: (CITY and STATE OR CO			
Please check the appropriate a	assignee category or categor	ies (will not be print	ited on the pat	ent): 🔲 Individual 🔲 (Corporation or other private gro	up entity	
4a. The following fee(s) are en	nclosed:		Payment of Fe	e(s):		, , , , , , , , , , , , , , , , , , , ,	
Issue Fee				the amount of the fee(s) is en			
Publication Fee (No sm Advance Order - # of C				eredit card. Form PTO-203			
		<u></u>	Deposit Accou	or is hereby authorized by on the Number	charge the required fee(s), or c	eredit any overpayment, to py of this form).	
5. Change in Entity Status (f					ALL ENTITY status. See 37 CF		
The Director of the USPTO is NOTE: The Issue Fee and Pub interest as shown by the record	requested to apply the Issurbication Fee (if required) was of the United States Pater	e Fee and Publication ill not be accepted for it and Trademark Of	on Fee (if any) from anyone office.	or to re-apply any previous ther than the applicant; a reg	ly paid issue fee to the applicat istered attorney or agent; or the	ion identified above. e assignee or other party in	
Authorized Signature				Date			
Typed or printed name	Typed or printed name Registration No						
This collection of information an application. Confidentiality submitting the completed appl this form and/or suggestions ft Box 1450, Alexandria, Virginia Alexandria, Virginia 22313-14	is required by 37 CFR 1.31 is governed by 35 U.S.C. lication form to the USPTC or reducing this burden, she is 22313-1450. DO NOT S 150.	1. The information i 122 and 37 CFR 1.1 0. Time will vary de buld be sent to the C END FEES OR CO	is required to 14. This collect epending upon Chief Informat DMPLETED F	obtain or retain a benefit by tion is estimated to take 12 the individual case. Any co- ion Officer, U.S. Patent and ORMS TO THIS ADDRESS	the public which is to file (and minutes to complete, including omments on the amount of tim Trademark Office, U.S. Depar S. SEND TO: Commissioner for displays a valid OMB control management.	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450.	



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ELLICOTT CIT			ART UNIT	PAPER NUMBER
			1762	
			DATE MAILED: 09/15/2004	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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04586 7590 09/15/2004 ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101			EXAMINER TALBOT, BRIAN K	
			1762	
			DATE MAILED: 09/15/2004	1

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reis	ssue patent,
except a design or plant patent:	
By a small entity (Sec. 1.27(a))	\$685.00
By other than a small entity	\$1,370.00
(b) Issue fee for issuing a design patent:	
By a small entity (Sec. 1.27(a))	\$245.00
By other than a small entity	
(c) Issue fee for issuing a plant patent:	
By a small entity (Sec. 1.27(a))	\$330.00
By other than a small entity	

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.